

Freeform Search

Database:	<div style="border: 1px solid black; padding: 2px;"> US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins </div>
Term:	<div style="border: 1px solid black; height: 40px; width: 100%;"></div>
Display:	<input type="text" value="10"/> Documents in Display Format: <input type="text" value="-"/> Starting with Number <input type="text" value="1"/>
Generate: <input type="radio"/> Hit List <input checked="" type="radio"/> Hit Count <input type="radio"/> Side by Side <input type="radio"/> Image	

Search

Clear

Interrupt

Search History

DATE: Saturday, May 08, 2004 [Printable Copy](#) [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
side by side			
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L44</u>	symbolical\$ near link\$ near information	10	<u>L44</u>
<u>L43</u>	symbol near link\$ near information	18	<u>L43</u>
<u>L42</u>	L41 and (master or main or primary or first) near symbol	42	<u>L42</u>
<u>L41</u>	symbol near template	188	<u>L41</u>
<u>L40</u>	6665679.uref.	0	<u>L40</u>
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L39</u>	5748953.pn.	1	<u>L39</u>
<u>L38</u>	5748953.pn.	1	<u>L38</u>
<u>L37</u>	5929855.pn.	1	<u>L37</u>
<u>L36</u>	5929855.pn.	1	<u>L36</u>
<u>L35</u>	6055538.pn.	1	<u>L35</u>
<u>L34</u>	6055538.pn.	1	<u>L34</u>
<u>L33</u>	6236980.pn.	1	<u>L33</u>
<u>L32</u>	6496836.pn.	1	<u>L32</u>
<u>L31</u>	6496836.pn.	1	<u>L31</u>

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L30</u>	L28 and symbol	10	<u>L30</u>
<u>L29</u>	L28 and financial near securities!	0	<u>L29</u>
<u>L28</u>	"curtis, kevin".in.	74	<u>L28</u>

DB=USPT; PLUR=YES; OP=OR

<u>L27</u>	5682525.pn.	1	<u>L27</u>
<u>L26</u>	5682525.pn.	1	<u>L26</u>
<u>L25</u>	5359508.pn.	1	<u>L25</u>
<u>L24</u>	5359508.pn.	1	<u>L24</u>

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

<u>L23</u>	L16 and (securities or stocks)near trad\$	10	<u>L23</u>
<u>L22</u>	L16 and (securities or stocks)and trad\$	61	<u>L22</u>
<u>L21</u>	L16 and (securities or stocks)	94	<u>L21</u>
<u>L20</u>	L16 and financial near securities	0	<u>L20</u>
<u>L19</u>	L17 and archiv\$	9	<u>L19</u>
<u>L18</u>	L17 and archiv\$	9	<u>L18</u>
<u>L17</u>	L16 and securities	67	<u>L17</u>
<u>L16</u>	link\$ near symbol	547	<u>L16</u>
<u>L15</u>	L14 and archiv\$	26	<u>L15</u>
<u>L14</u>	L13 and symbol	148	<u>L14</u>
<u>L13</u>	L12 and securities	295	<u>L13</u>
<u>L12</u>	L11 and ("pacific stock exchange" or "pse" or "nyse" or "new york stock exchange")	327	<u>L12</u>
<u>L11</u>	705.clas.	26703	<u>L11</u>
<u>L10</u>	L9 and inform\$	18	<u>L10</u>
<u>L9</u>	L8 and link\$	18	<u>L9</u>
<u>L8</u>	L7 and archiv\$	21	<u>L8</u>
<u>L7</u>	L6 and symbol	106	<u>L7</u>
<u>L6</u>	L5 and securities	187	<u>L6</u>
<u>L5</u>	L4 and ("pacific stock exchange" or "pse" or "nyse" or "new york stock exchange")	199	<u>L5</u>
<u>L4</u>	705/37	2066	<u>L4</u>
<u>L3</u>	5940843.pn.	2	<u>L3</u>
<u>L2</u>	6236980.pn.	2	<u>L2</u>
<u>L1</u>	6122635.pn.	2	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
6665679.uref.	0

Database:

US Pre-Grant Publication Full-Text Database
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Search History

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<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
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<u>L33</u>	6236980.pn.	1	<u>L33</u>
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<u>L1</u>	6122635.pn.	2	<u>L1</u>

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L19: Entry 5 of 9

File: USPT

Dec 16, 2003

US-PAT-NO: 6665679

DOCUMENT-IDENTIFIER: US 6665679 B2

TITLE: Method and system for symbolical linkage and intelligent categorization of information

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Urazov; Yuri	Forest Hills	NY		
Berganovsky; Michael	River Edge	NJ		
Rosen; Alex	Brooklyn	NY		

US-CL-CURRENT: 707/100; 707/6

CLAIMS:

What is claimed is:

1. A method for storing and referencing symbolically linked information comprising the steps of: processing a symbol in order to generate at least one of a master symbol and a categorical symbol; determining a unique parent identifier corresponding to the master symbol; storing the unique parent identifier and the master symbol in a master symbol database wherein the master symbol is linked to the parent identifier; storing the categorical symbol in a categorical symbol database; and storing at least one information element wherein the at least one information element is linked to at least one of the unique parent identifier and the categorical symbol.
2. The method according to claim 1, wherein the step of processing the symbol to generate the master symbol includes the step of applying a set of character rules to the symbol.
3. The method according to claim 1, wherein the step of processing the symbol to generate the master symbol includes the step of applying a set of process rules to the symbol.
4. The method according to claim 1, wherein the at least one information element is a document.
5. The method according to claim 1, wherein each master symbol is structured according to a symbol template containing at least one symbol field.
6. The method according to claim 5, wherein each master symbol includes at least one symbol segment corresponding respectively to the at least symbol field defined by the symbol template.

7. The method according to claim 1, wherein the categorical symbol is structured according to a symbol template containing at least one symbol field.
8. The method according to claim 7, wherein the categorical symbol refers to a categorical group of information elements.
9. The method according to claim 6, wherein each master symbol refers to a security issued by a company.
10. The method according to claim 9, wherein the symbol template includes a root symbol field referring to the name of a security and a source symbol field referring to a country in which the security is traded.
11. The method according to claim 8, wherein the symbol template includes a categorical symbol field referring to a categorical symbol group.
12. The method according to claim 1, wherein the step of storing at least one information element includes the steps of generating an information element identifier, storing the information element identifier, the parent identifier and the categorical symbol so that the parent identifier and the categorical symbol are linked to the information element identifier, and storing the information element and the information element identifier so that the information element identifier is linked to the information element.
13. The method according to claim 6, wherein each symbol segment comprises an ASCII (American Standard Code for Information Interchange) string.
14. The method according to claim 12, wherein the parent identifier is linked to the information element identifier in a relational database.
15. The method according to claim 12, wherein the categorical symbol is linked to the information element identifier in a relational database.
16. A method for the archival of symbolically linked information comprising the steps of: receiving an information element and at least an input symbol; processing the input symbol to generate a normalized symbol; searching a master symbol database using the normalized symbol to find a matching master symbol and linked parent identifier; searching a categorical symbol database using the normalized symbol to find a matching categorical symbol; storing the information element; and linking at least one of the parent identifier and the categorical symbol to the information element.
17. The method according to claim 16, wherein the step of processing the input symbol to generate the normalized symbol includes the step of applying a set of character rules to the input symbol.
18. The method according to claim 16, wherein the step of processing the symbol to generate the master symbol includes the step of applying a set of process rules to the symbol.
19. The method according to claim 16, wherein the step of processing the symbol to generate the categorical symbol includes the step of applying a set of process rules to the symbol.

- 20. The method according to claim 16, wherein the information element is a document.
- 21. The method according to claim 16, wherein the master symbol database stores a set of master symbols, wherein each master symbol is structured according to a symbol template containing at least one symbol field.
- 22. The method according to claim 16, wherein the categorical symbol database stores a set of categorical symbols, wherein each categorical symbol is structured according to a symbol template containing at least one symbol field.
- 23. The method according to claim 21, wherein each master symbol includes at least one symbol segment corresponding respectively to the at least symbol field defined by the symbol template.
- 24. The method according to claim 23, wherein each master symbol refers to a security issued by a company.
- 25. The method according to claim 24, wherein the symbol template includes a root symbol field referring to the name of a security and a source symbol field referring to a country in which the security is traded.
- 26. The method according to claim 22, wherein the categorical symbol refers to a categorical group of information elements.
- 27. The method according to claim 26, wherein the symbol template includes a categorical symbol field referring to a categorical symbol group.
- 28. The method according to claim 16, wherein the step of storing the information element includes the steps of generating an information element identifier, storing the information element identifier, the parent identifier and the categorical symbol so that the parent identifier and the categorical symbol are linked to the information element identifier, and storing the information element and the information element identifier so that the information element identifier is linked to the information element.
- 29. The method according to claim 23, wherein each symbol segment comprises an ASCII (American Standard Code for Information Interchange) string.
- 30. The method according to claim 28, wherein the parent identifier is linked to the information element identifier in a relational database.
- 31. The method according to claim 28, wherein the categorical symbol is linked to the information element identifier in a relational database.
- 32. The method according to claim 16, further comprising the steps of: if the normalized symbol contains an unresolved segment, searching a contributor database to find a predominant use segment, and assigning the predominant use segment to the unresolved segment.
- 33. A method for the retrieval of symbolically linked information, comprising the steps of: receiving an input symbol; processing the input symbol to generate a normalized symbol; searching a master symbol database using the normalized symbol to find a matching master

symbol and a parent identifier linked to the master symbol; searching a categorical symbol database using the normalized symbol to find a matching categorical symbol; searching an information element database to find an information element which is linked to at least one of the parent identifier and the categorical symbol; and retrieving the information element.

34. The method according to claim 33, further comprising the steps of: determining whether the input symbol includes an unresolved segment; and if the input symbol contains an unresolved segment, searching a client database to find a client preference segment, and assigning the client preference segment to the unresolved segment.

35. The method according to claim 33, wherein the step of processing the input symbol to generate the normalized symbol includes the step of applying a set of character rules to the symbol.

36. The method according to claim 33, wherein the step of processing the input symbol to generate a normalized symbol comprises applying a set of process rules to the symbol.

37. The method according to claim 33, wherein the information element is a document.

38. The method according to claim 33, wherein the master symbol database stores a set of master symbols, wherein each master symbol is structured according to a symbol template containing at least one symbol field.

39. The method according to claim 38, wherein each master symbol is structured according to a symbol template containing at least one symbol field.

40. The method according to claim 39, wherein each master symbol includes at least one symbol segment corresponding to the at least symbol field defined by the symbol template.

41. The method according to claim 40, wherein each master symbol refers to a security issued by a company.

42. The method according to claim 41, wherein the symbol template includes a root symbol field referring to the name of a security and a source symbol field referring to a country in which the security is traded.

43. The method according to claim 40, wherein each symbol segment comprises an ASCII (American Standard Code for Information Interchange) string.

44. The method according to claim 33, wherein the information database is a relational database.

45. The method according to claim 33, wherein the categorical symbol database stores a set of categorical symbols, wherein each categorical symbol is structured according to a symbol template containing at least one symbol field.

46. The method according to claim 45, wherein each categorical symbol is structured according to a symbol template containing at least one symbol field.

47. The method according to claim 46, wherein the categorical symbol refers to a categorical group of information elements.

48. The method according to claim 47, wherein the symbol template includes a categorical symbol field referring to a categorical symbol group.

49. A document repository system allowing electronic archival of documents using an input symbol comprising: a storage device; a network interface; and a processor coupled to the storage device, said processor adapted to: store master symbols in a master symbol database, wherein each master symbol is linked to a parent identifier and a document database; store categorical symbols in a categorical symbol database, wherein each categorical symbol is linked to a document database; receive an input symbol and a document via the network interface; process the input symbol to obtain a normalized input symbol; search the master symbol database using the normalized input symbol to find a matching master symbol and a linked parent identifier; search the categorical symbol database using the normalized input symbol to find a matching categorical symbol; and store the document in the document database so that the document is linked to the parent identifier and the categorical symbol.

50. The document repository system according to claim 49, wherein: if the input symbol contains at least one unresolved segment, for each unresolved symbol segment, the processor searches a contributor historical pattern database to find a predominant use segment, and assigns the predominant use segment to the unresolved segment.

51. A document repository system allowing electronic retrieval of documents using an input symbol, comprising: a storage device which includes a master symbol database which stores master symbols, a categorical symbol database which stores categorical symbols and a document database, wherein each master symbol is linked to a parent identifier, and the document database stores documents linked to a parent identifier and a categorical symbol; a network interface; a processor, which: receives an input symbol via the network interface, processes the input symbol to obtain a normalized input symbol, searches the master symbol database and the categorical symbol using the normalized input symbol to find a matching master symbol, a linked parent identifier and the categorical symbol, and retrieves documents from the document database that are linked to at least one of the following the parent identifier and the categorical symbol.

52. The document repository system according to claim 51, wherein: if the input symbol contains at least one unresolved segment, for each unresolved symbol segment, the processor searches a client database to find a client preference segment, and assigns the client preference segment to the unresolved segment.

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L15: Entry 19 of 26

File: PGPB

Sep 13, 2001

PGPUB-DOCUMENT-NUMBER: 20010021922
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010021922 A1

TITLE: Method and system for symbolical linkage and intelligent categorization of information

PUBLICATION-DATE: September 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
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Urazov, Yuri	Danville	CA	US	
Berganovsky, Michael	River Edge	NJ	US	
Rosin, Alex	Brooklyn	NY	US	

APPL-NO: 09/ 766293 [PALM]
DATE FILED: January 19, 2001

RELATED-US-APPL-DATA:

Application 09/766293 is a continuation-in-part-of US application 09/336031, filed June 18, 1999, PENDING

INT-CL: [07] G06 F 17/60

US-CL-PUBLISHED: 705/35

US-CL-CURRENT: 705/35

REPRESENTATIVE-FIGURES: 1A

ABSTRACT:

The present invention provides a method and system for the archival and retrieval of symbolically and categorically linked information preferably in the form of documents or data records. The method and system enables the archival and retrieval of information despite idiosyncratic symbol usage. A master symbol database stores a plurality of master symbols and a categorical symbol database stores a plurality of categorical symbols, wherein each master symbol and categorical symbol are formatted according to a predetermined structure. Users may archive or retrieve symbolically linked information in an information database by providing an input symbol. If necessary the system normalizes the input symbol where the input symbol may include either or both a master symbol and a categorical symbol. After the input symbol is normalized the system searches either or both the master symbol database and the categorical symbol database in order to find a matching master symbol and a matching categorical symbol. Information is then retrieved or archived base upon either or both the matching master symbol and the matching categorical symbol.

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation-in-part of U.S. application Ser. No. 09/336,031, filed Jun. 18, 1999.